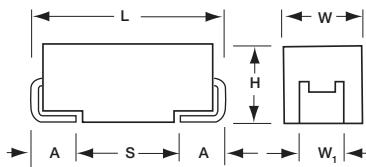
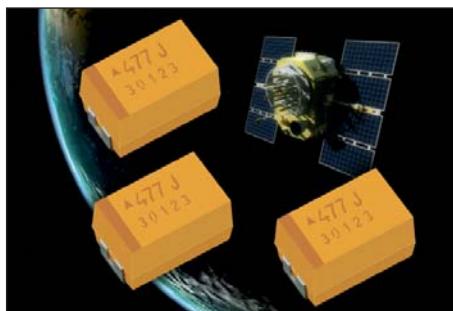


# TBM Multianode

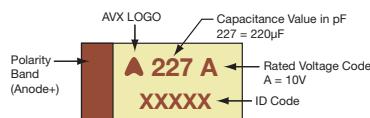


## Tantalum Ultra Low ESR Space Level



### MARKING

#### D, E CASE



### CAPACITANCE AND RATED VOLTAGE RANGE LETTER DENOTES CASE SIZE ESR LIMIT IN BRACKETS

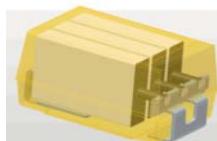
Capacitance		Rated Voltage DC ( $V_R$ ) to 85°C								
$\mu F$	Code	2.5V (e)	4V (G)	6V (J)	10V (A)	12V (B)	16V (C)	20V (D)	25V (E)	35V (V)
22	226									D(70) E(60,100)
33	336								D(65)	E(50,65)
47	476									E(65)
68	686									
100	107							E(35,45)		
150	157						E(30,40)			
220	227				D(35)	E(35)				
330	337		D(35)	D(35)	E(35)					
470	477		D(35)	E(30)						
680	687		E(23)							
1000	108	D(25)	E(23)							
1500	158	E(18)								

Available Ratings: ESR limits quoted in brackets (mOhms)

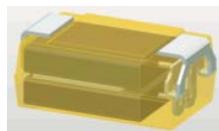
Notes: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

EIA standards for Low ESR solid tantalum capacitors allow an ESR movement of 1.25 times initial limit post mounting.

#### MULTIANODE CONSTRUCTION



#### MULTIANODE TBM D LOW SELF INDUCTANCE CONSTRUCTION "MIRROR" DESIGN



# TBM Multianode



## Tantalum Ultra Low ESR Space Level

### HOW TO ORDER

#### SPACE LEVEL OPTIONS TO SRC9000:

TBM	E	477	*	006	L	<input type="checkbox"/>	L	@	9	^	++
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	Standard or Low ESR Range	Packaging	Inspection Level	Reliability Grade	Qualification Level	Termination Finish	Surge Test Option
pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)		M = ±20% K = ±10%		002 = 2.5Vdc 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 012 = 12Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc	C = Std ESR L = Low ESR	B = Bulk R = 7" T&R S = 13" T&R W = Waffle	L = Group A	Weibull: C = 0.01%/1000 hrs. 90% conf.	9 = SRC9000	H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated	45 = 10 cycles, -55°C & +85°C before Weibull



LEAD-FREE  
COMPATIBLE



RoHS  
COMPLIANT

For RoHS compliant products,  
please select correct termination style.

### TECHNICAL SPECIFICATIONS

Technical Data:	Unless otherwise specified, all technical data relate to an ambient temperature of +25°C										
Capacitance Range:	22 µF to 1500 µF										
Capacitance Tolerance:	±10%; ±20%										
Rated Voltage DC ( $V_R$ )	≤ +85°C:	2.5	4	6	10	12	16	20	25	35	
Category Voltage ( $V_C$ )	≤ +125°C:	1.7	2.7	4	7	8.4	10	13	17	23	
Surge Voltage ( $V_S$ )	≤ +85°C:	3.3	5.2	8	13	15.6	20	26	32	46	
Surge Voltage ( $V_S$ )	≤ +125°C:	2.2	3.4	5	8	9.6	12	16	20	28	
Temperature Range:	-55°C to +125°C										

# TBM Multianode

## Tantalum Ultra Low ESR Space Level

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating										Typical RMS Ripple			
		Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF max			Power Dissipation	25°C Ripple	85°C Ripple	100°C Ripple	
AVX P/N	Case				(μA)	(μA)	(%)	(%)	(%)	(%)					
<b>2.5 Volt @ 85°C (1.7 Volt @ 125°C)</b>															
TBMD108*002L□LC9^45	D	1000	2.5	25	18.8	188	376	8	11	12	0.255	3.194	2.874	1.100	
TBME158*002C□LC9^45	E	1500	2.5	18	28.1	281	562	6	9	10	0.270	3.873	3.486	1.100	
<b>4 Volt @ 85°C (2.7 Volt @ 125°C)</b>															
TBMD337*004L□LC9^45	D	330	4	35	9.9	99	198	8	11	12	0.255	2.699	2.429	1.100	
TBMD477*004L□LC9^45	D	470	4	35	14.1	141	282	8	11	12	0.255	2.699	2.429	1.100	
TBME687*004C□LC9^45	E	680	4	23	20.4	204	408	6	9	10	0.270	3.426	3.084	1.100	
TBME108*004C□LC9^45	E	1000	4	23	30	300	600	6	9	10	0.270	3.426	3.084	1.100	
<b>6 Volt @ 85°C (4 Volt @ 125°C)</b>															
TBMD337*006L□LC9^45	D	330	6	35	14.9	149	298	8	11	12	0.255	2.699	2.429	1.100	
TBME477*006C□LC9^45	E	470	6	30	21.2	212	424	6	9	10	0.270	3.000	2.700	1.100	
<b>10 Volt @ 85°C (7 Volt @ 125°C)</b>															
TBMD227*010L□LC9^45	D	220	10	35	16.5	165	330	8	11	12	0.255	2.699	2.429	1.100	
TBME337*010C□LC9^45	E	330	10	35	24.8	248	496	6	9	10	0.270	2.777	2.500	1.100	
<b>12 Volt @ 85°C (8.4 Volt @ 125°C)</b>															
TBME227*012C□LC9^45	E	220	12	35	19.8	198	396	6	9	10	0.270	2.777	2.500	1.100	
<b>16 Volt @ 85°C (10 Volt @ 125°C)</b>															
TBME157*016L□LC9^45	E	150	16	30	18	180	360	6	9	10	0.270	3.000	2.700	1.100	
TBME157*016C□LC9^45	E	150	16	40	18	180	360	6	9	10	0.270	2.598	2.338	1.100	
<b>20 Volt @ 85°C (13 Volt @ 125°C)</b>															
TBME107*020L□LC9^45	E	100	20	35	15	150	300	6	9	10	0.270	2.777	2.500	1.100	
TBME107*020C□LC9^45	E	100	20	45	15	150	300	6	9	10	0.270	2.449	2.205	1.100	
<b>25 Volt @ 85°C (17 Volt @ 125°C)</b>															
TBMD336*025L□LC9^45	D	33	25	65	6.2	62	124	8	11	12	0.255	1.981	1.783	0.100	
TBME476*025L□LC9^45	E	47	25	65	8.8	88	176	6	9	10	0.270	2.038	1.834	0.100	
<b>35 Volt @ 85°C (23 Volt @ 125°C)</b>															
TBMD226*035L□LC9^45	D	22	35	70	5.8	58	116	8	11	12	0.255	1.909	1.718	0.100	
TBME226*035L□LC9^45	E	22	35	60	5.8	58	116	6	9	10	0.270	2.121	1.909	0.100	
TBME226*035C□LC9^45	E	22	35	100	5.8	58	116	6	9	10	0.270	1.643	1.479	0.100	
TBME336*035L□LC9^45	E	33	35	50	8.7	87	174	6	9	10	0.270	2.324	2.091	0.100	
TBME336*035C□LC9^45	E	33	35	65	8.7	87	174	6	9	10	0.270	2.038	1.834	0.100	

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage.

**NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.**

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